

**Declaration of Performance**  
(according to regulation EU No 305/2011)

No. LPE Section S355K2W

**Section S355K2W / 1.8967 according EN 10025-5**

To be used in-welded, bolted and riveted structures

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System of assessment and verification of constancy of performance of the product  
System 2+

Notified factory production control certification body No. 0038 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment, and evaluation of factory production control and issued the certificate of conformity of the factory production control

  
Jon Bolton – Director, Long Products Europe  
Tata Steel UK Limited

**1<sup>st</sup> July 2013**  
Date

| Essential characteristic           | Performance  |   | Harmonised technical specification  |     |     |     |
|------------------------------------|--|---|---|-----|-----|-----|
| Tolerances on dimensions and shape | I & H Sections<br>Equal Flange Tee<br>Equal Angle<br>Unequal Angle<br>Tapered Flange I<br>Bulb Flats | EN 10034<br>EN 10055<br>EN 10056-1<br>EN10056-2<br>EN 10024<br>EN 10067 | EN10025-1 2004  |     |     |     |
| Yield strength (transverse)        | Nominal thickness (mm)   | Values Min (MPa)  |   |     |     |     |
|                                    | >  | <=  |   |     |     |     |
|                                    | -  | 16  |   |     | 355 |     |
|                                    | 16   | 40  |   |     | 345 |     |
|                                    | 40   | 63  |   |     | 335 |     |
|                                    | 63   | 80  |   |     | 325 |     |
|                                    | 80   | 100   |   |     | 315 |     |
| 100                                | 150  | 295   |   |     |     |     |
| Tensile strength (transverse)      | Nominal thickness (mm)   | Values (MPa)  |   |     | min | max |
|                                    | >  | <=  |   |     |     |     |
|                                    | 5  | 100   | 510   | 680 |     |     |
|                                    | 100  | 150   | 470   | 630 |     |     |
| Elongation (transverse)            | Nominal thickness (mm)   | Values min (%)  |   |     |     |     |
|                                    | >  | <=  |   |     |     |     |
|                                    | 5  | 40  | 20  |     |     |     |
|                                    | 40   | 63  | 19  |     |     |     |
|                                    | 63   | 100   | 18  |     |     |     |
| 100                                | 150  | 18  |   |     |     |     |
| Impact strength (longitudinal)     | K2   | 40J at - 20°C   |   |     |     |     |
| Weldability CEV                    | Nominal thickness (mm)   | Values max (%)  |   |     |     |     |
|                                    | >  | <=  |   |     |     |     |
| -                                  | 150  | 0.52  |   |     |     |     |
| Durability                         | Nominal thickness (mm)   |   |   |     |     |     |
|                                    | -  | <=40  | C:0.16<br>Si: 0.50<br>Mn: 0.50 - 1.50<br>P: 0.030<br>S: 0.030<br>N: 0.009<br>Cr: 0.40 - 0.80<br>Cu: 0.25 - 0.55 |     |     |     |

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| <br>0038  |
| Tata Steel<br>Long Products Europe<br>PO Box 1, Brigg Road<br>Scunthorpe, UK<br><br>13<br><br>LPE Section S355K2W  |
| EN 10025-1 – 2004<br><br>Section S355K2W / 1.8967<br><br>Intended to be used in metal structures or in composite metal and concrete structures                                 |
| Elongation :<br>Tensile Strength :<br>Yield Strength : EN10025-5<br>Impact Strength :<br>Weldability :<br>Durability :<br><br>Dangerous Substances : No Performance Determined |